ELSEVIER

Mathematics and Computers in Simulation 42 (1996) 787–790

MATHEMATICS AND COMPUTERS IN SIMULATION

Author index of volume 42 (1996)

(The issue number is given in front of the page number)

Abell, M.L. and **J.P. Braselton,** Advancing the study of differential equations with technology (4–6) 493–507
Akritas, A.G., E.K. Akritas and **G.I. Malaschonok,** Various proofs of Sylvester's (determinant) identity (4–6) 585–593
Akritas, E.K., *see* **Akritas, A.G.** (4–6) 585–593
Aicón. A., *see* **García-Ochoa, F.** (2–3) 187–195
Arnzidi, B., *see* **Villard, D.** (4–6) 659–673
Ávila, I.M.L.B., M.C. Manso and **C.L.M. Silva,** Modelling the thermal sterilisation of foods inside packs with two divisions (2–3) 279–285
Becker, E. and **T. Wörmann,** Radical computations of zero-dimensional ideals and real root counting (4–6) 561–569
Behar N., *see* **Kabakchiev C.** (1) 97–105
Belleni Morante, A., G. Lauro and **R. Monaco,** Modelling and numerical simulation of contamination processes in random media (1) 85–95
Berckmans, D., *see* **De Moor, M.** (2–3) 233–244
Berenstein, C.A. and **A. Yger,** Multidimentional residues and complexity problems (4–6) 449–457
Blinkov, Yu.A., *see* **Zharkov, A.Yu.** (4–6) 323–332
Boucneau, G., M. Van Meirvenne, J. Desmet and **G. Hofman,** Regressive modelling of soil water table fluctuations (2–3) 271–277
Boudon O., and **J.M. Laborde,** Cabri-graph, a sketchpad for graph theory (4–6) 765–774
Boulier, F., An optimization of Seidenberg's elimination algorithm in differential algebra (4–6) 439–448
Brand, A., *see* **Wolf, T.,** (4–6) 391–398
Braselton, J.P., *see* **Abell, M.L.** (4–6) 493–507
Bronstein, M., On the factorisation of linear ordinary differential operators (4–6) 387–389
Bungartz, H., M. Griebel, D. Röschke and **C. Zenger,** A proof of convergence for the combination technique for the Laplace equation using tools of symbolic computation (4–6) 595–605
Caprasse, H., The impact of computer algebra on the use and understanding of fundamental interactions (4–6) 729–730
Chindris, M. and **T. Coloşi,** A variant for numerical simulation of a high-frequency converter with voltage-fed inverter (4–6) 685–692
Coloşi T., *see* **Chindris M.** (4–6) 685–692
Daftardar-Gejji, V., Evaluation of Ashtekar variables using stensor (4–6) 731–737
De Moor, M. and **D. Berckmans,** Building a grey box model to model the energy and mass transfer in an imperfectly mixed fluid by using experimental data (2–3) 233–244

Elsevier Science B.V.

Desmet, J., *see* **Boucneau, G.** (2–3) 271–277
Duval, D. and **J.-C. Reynaud,** Sketches and computations over fields (4–6) 363–373
Duval, D. and **L. González-Vega** Dynamic evaluation and real closure (4–6) 551–560
Engasser, J.M., *see* **Lourenço da Silva, A.** (2–3) 197–205
Farkas, I. and **Z. Rendik,** Block oriented modeling of drying processes (2–3) 213–219
Fiorot, J.C., P. Jeannin and **B. Sucher,** Recursive calculation of the derivatives of rational curves in (*BR*) form (4–6) 751–764
Fonseca-Neto, J.B., M.J. Rebouças and **M.A.H. MacCallum,** Algebraic computing in torsion theories of gravitation (4–6) 739–748
Forsberg, O.I., Optimal stocking and harvesting of size-structured farmed fish: A multi-period linear programming approach (2–3) 299–305
Fung, K.K. and **S.Y.R. Hui,** Transputer simulation of decoupled electrical circuits (1) 1–13
Ganzha, V., Symbolic devices and numerical solving of PDEs (4–6) 583–584
Ganzha, V.G. and E.V. Vorozhtsov, Symbolic–numerical computation of the stability regions for Jameson's schemes (4–6) 607–615
García-Ochoa, F., V.E. Santos and **A. Alcón,** Simulation of xanthan gum production by a chemically structured kinetic model (2–3) 187–195
Gerdt, V., Computer algebra and solving polynomials (4–6) 321–322
Gerdt, V.P., Homogeneity of integrability conditions for multi-parametric families of polynomial-nonlinear evolution equations (4–6) 399–408
Giusti, M., Elimination and complexity (4–6) 427–428
Gómez-Díaz, T., Examples of using dynamic constructible closure (4–6) 375–386
Goergen, J.L., *see* **Lourenço da Silva, A.** (2–3) 197–205
González-López, M.J., T. Recio and **F. Santos,** Parametrization of semialgebraic sets (4–6) 353–362
González-Vega L., *see* **Duval, D.** (4–6) 551–560
Griebel, M., *see* **Bungartz, H.** (4–6) 595–605
Guyon, C., Motion planning problem: Parametrized inputs and drift problem (4–6) 693–706
Habibi, M., *see* **Razzaghi, M.** (1) 77–84
Hadjidimos, A., *see* **Kim, S.-B.** (1) 47–76
Hespel, C., Iterated derivatives of the output of a nonlinear dynamic system and Faà di Bruno formula (4–6) 641–657
Hoang Ngoc Minh, Summations of polylogarithms via evaluation transform (4–6) 707–728
Hofman, G., *see* **Boucneau, G.** (2–3) 271–277
Højsgaard, S., Learning structures from data and experts (2–3) 143–152
Hollinger, S.E. and **L. Kuchar,** Mapping disease risk using a joint probability distribution (2–3) 293–298
Hong, H., An efficient method for analyzing the topology of plane real algebraic curves (4–6) 571–582
Houstis, E.N., *see* **Kim, S.-B.** (1) 47–76
Hui, S.Y.R., *see* **Fung, K.K.** (1) 1–13
Hui, S.Y.R., *see* **Woolfson, M.S.** (1) 15–33
Jacob, G., Preface (4–6) 319–320
Jacob, G., Dynamical systems (4–6) 639–640
Jacob, G., Graphs and curves drawing (4–6) 749–750
Jeannin, P., *see* **Fiorot, J.C.** (4–6) 751–764
Jung, F., F. Naegele and **J. Thomann,** An algorithm of multisummation of formal power series, solutions of linear ODE equations (4–6) 409–425
Kabakchiev C. and **N. Behar,** Parallel architecture of adaptive MTD processors (1) 97–105

Kim, S.-B., A. Hadjidimos, E.N. Houstis and **J.R. Rice,** Multi-parameterized Schwarz alternating methods for elliptic boundary value problems (1) 47–76
Kinder, M. and **W. Wiechert,** Stochastic simulation of biotechnical processes (2–3) 171–178
Kuchar, L., *see* **Hollinger, S.E.** (2–3) 293–298
Laborde J.M., *see* **Boudon, O.** (4–6) 775–785
Lauro G., *see* **Belleni Morante, A.** (1) 85–95
Ligatsikas, Z., R. Rioboo and **M.F. Roy,** Generic computation of the real closure of an ordered field (4–6) 541–549
Liska, R., *see* **Steinberg S.** (4–6) 629–638
Lourenço da Silva, A. Marc, J.M. Engasser and **J.L. Goergen,** Kinetic model of hybridoma cultures for the identification of rate limiting factors and process optimisation (2–3) 197–205
MacCallum, M.A.H., Computer algebra and differential equations (4–6) 385–386
MacCallum, M.A.H., *see* **Fonseca-Neto, J.B.** (4–6) 739–748
Malaschonok, G.I., *see* **Akritas, A.G.** (4–6) 585–593
Manso, M.C., *see* **Ávila, I.M.L.B.** (2–3) 279–285
Marc, A., *see* **Lourenço da Silva, A.** (2–3) 197–205
Markov, S., E. Popova, U. Schneider and **J. Schulze,** On linear interpolation under interval data (1) 35–45
Marquardt, M., *see* **Pfeiffer, B. -M.** (4–6) 617–628
Monaco R., *see* **Belleni Morante, A.** (1) 85–95
Munford,A.G., The use of iterative linear programming in practical applications of animal diet formulation (2–3) 255–261
Naegele, F., *see* **Jung, F.** (4–6) 409–425
Nicolaï, B.M. and **J.F.Van Impe,** Predictive food microbiology: A probabilistic approach (2–3) 287–292
Panikov, N.S., Mechanistic mathematical models of microbial growth in bioreactors and in natural soils : Explanation of complex phenomena (2–3) 179–186
Paul, W. and **E. Witte,** Robust approaches to N-leaching under uncertainties (2–3) 153–157
Persoons, E., *see* **Szöke, S.** (2–3) 221–232
Pfeiffer, B.-M. and **W. Marquardt,** Symbolic semi-discretization of partial differential equation systems (4–6) 617–628
Popova, E., *see* **Markov, S.** (1) 35–45
Pronzato, L., *see* **Walter, E.** (2–3) 125–134
Razzaghi, M. and **M. Habibi,** Application of Legendre series to the control problems governed by linear parabolic equations (1) 77–84
Real, P., An algorithm computing homotopy groups (4–6) 461–465
Rebouças, M.J., *see* **J.B. Fonseca-Neto** (4–6) 739–748
Recio, T., *see* **González-López, M.J.** (4–6) 353–362
Recio, T., Real algebraic numbers (4–6) 539–539
Rendik, Z., *see* **Farkas, I.** (2–3) 213–219
Reynaud, J.-C., *see* **Duval, D.** (4–6) 363–373
Rice, J.R., *see* **Kim, S.-B.** (1) 47–76
Richter, O. and **R. Seppelt,** Quantitative aspects of sustainable agriculture (2–3) 263–269
Rioboo, R., *see* **Ligatsikas, Z.** (4–6) 541–549
Röschke, D., *see* **Bungartz, H.** (4–6) 595–605
Roos, J.-E., On computer-assisted research in homological algebra (4–6) 475–490
Roy, M.F., *see* **Ligatsikas, Z.** (4–6) 541–549
Rubio García, J.J., Integrating functional programming and symbolic computation (4–6) 467–473

Santos, F., *see* **González-López, M.J.** (4–6) 353–362
Santos, V.E., *see* **García-Ochoa, F.** (2–3) 187–195
Schneider, U., *see* **Markov, S.** (1) 35–45
Schulze, J., *see* **Markov, S.** (1) 35–45
Seppelt, R., *see* **Richter, O.** (2–3) 263–269
Sergeraert, F., Geometry and algebraic topology (4–6) 459–460
Shirayanagi K., Floating point Gröbner bases (4–6) 509–528
Silva, C.L.M., *see* **Ávila, I.M.L.B.** (2–3) 279–285
Solernó, P., Complexity bounds in elimination theory – A survey (4–6) 429–438
Steinberg, S. and **R. Liska**, Stability analysis by quantifier elimination (4–6) 629–638
Stirbet, A.D. and **R.J. Strasser**, Numerical simulation of the in vivo fluorescence in plants (2–3) 245–253
Stortelder, W.J.H., Parameter estimation in dynamic systems (2–3) 135–142
Strasser, R.J., *see* **Stirbet, A.D.** (2–3) 245–253
Sucher B., *see* **Fiorot, J.C.** (4–6) 751–764
Szöke, S. and **E. Persoons**, A new conceptual model to compute the drying front in wheat (2–3) 221–232
Szymkat, M., Algorithms for symbolic reduction of signal flow graphs (4–6) 675–684
Recio, T., Real algebraic numbers (4–6) 539–540
Thomann, J., *see* **Jung, F.** (4–6) 409–425
Trevisan, V., Theory and practice of algebraic algorithms (4–6) 491–492
Vanags, J.J., *see* **Viesturs, U.E.** (2–3) 207–211
Van Impe, J.F., *see* **Nicolaï, B.M.** (2–3) 287–292
Van Impe, J.F.M., Power and limitations of model based bioprocess optimization (2–3) 159–169
Van Meirvenne, M., *see* **Boucneau, G.** (2–3) 271–277
Viesturs, U.E. and **J.J Vanags**, Correlation of mixing and fermentation performance (2–3) 207–211
Villard, D. and **B. Arnaldi**, Symbolic differentiation library for simulation of multibody rigid systems (4–6) 659–673
Vorozhtsov, E.V., *see* **Ganzha, V.G.** (4–6) 607–615
Walter, E. and **L. Pronzato**, On the identifiability and distinguishability of nonlinear parametric models (2–3) 125–134
Wang, D., Solving polynomial equations: Characteristic sets and triangular systems (4–6) 339–351
Wiechert, W., *see* **Kinder, M.** (2–3) 171–178
Winkler, F., Parametrized solutions of algebraic equations (4–6) 333–338
Winkler, F., Algebraic computation in geometry (4–6) 529–537
Witte, E., *see* **Paul, W.** (2–3) 153–157
Wörmann, T., *see* **Becker, E.** (4–6) 561–569
Wolf, T. and **A. Brand**, Approaches to solving nonlinear ODEs (4–6) 391–398
Woolfson, M.S. and **S.Y.R. Hui**, Application of the transmission line method to the solution of the continuous Kalman filter equations of general order (1) 15–33
Yger, A., *see* **Berenstein, C.A.** (4–6) 449–457
Zenger, C., *see* **Bungartz, H.** (4–6) 595–606
Zharkov, A.Yu. and Yu.A. Blinkov, Involution approach to investigating polynominal systems (4–6) 323–332